

U. S. ENVIRONMENTAL PROTECTION AGENCY  
REGION IV, ATHENS, GEORGIA

Site: Carrier Air  
3.10  
Break:  
SISB/SAS  
OPA  
RECORDED

MEMORANDUM

DATE: OCT 18 1988

SUBJECT: RI Final Report, Carrier Air Conditioning Site, Collierville Municipal Wells in Collierville, Tennessee. ESD Project No. 88-509.

FROM: James C. Gray  
Hazardous Waste Section  
Environmental Compliance Branch  
Environmental Services Division

TO: Al Hanke, Chief  
Site Assessment Section  
Site Investigation and Support Branch  
Waste Management Division

THRU: M. D. Lair, Chief  
Hazardous Waste Section  
Environmental Compliance Branch  
Environmental Services Division

The remedial investigation final report for the Carrier Air Conditioning Site, Collierville Municipal Wells in Collierville, Tennessee, is being transmitted to you. The attached copy is the finalized, peer reviewed form of the report.

Should you have any questions regarding this report or should you require additional information, please call FTS: 250-3589.

Attachment

cc: Lair/Mundrick  
Knight  
Barnett

Superfundfile 1.2



10663190

REMEDIAL SAMPLING INVESTIGATION  
CARRIER AIR CONDITIONING SITE  
COLLIERVILLE MUNICIPAL WELLS  
COLLIERVILLE, TENNESSEE

#### INTRODUCTION

A sampling investigation was conducted of the city of Collierville, Tennessee municipal drinking water wells. The objective of this investigation was to identify suspected ground water contamination from the Carrier Air Conditioning Company NPL site.

The investigation was conducted by Mr. Jim Gray of the United States Environmental Protection Agency (US-EPA), Region IV, Environmental Services Division (ESD), and Felicia Barnett, US-EPA, Region IV, Waste Management Division, on July 19, 1988. The investigation was requested by Felicia Barnett, Regional Project Manager for the Carrier Air Conditioning Site.

#### SITE DESCRIPTION

The city of Collierville operates two municipal water well fields (Figure I). The west well field is located on the northwest corner of the Carrier Air Conditioning Company, less than 2000 feet from the plant. The east well field is located in downtown Collierville, approximately 1.5 miles from the plant.

The west well field (Figure II) contains two wells, each of which is finished to a depth of 300 feet. The field also has a water treatment system, an aerator, and a water storage tank. The east well field (Figure III) contains three wells. The east and west wells are finished to a depth of 300 feet, while the middle well is at 600 feet. The east field also contains a pumping station and water storage tank.

#### SITE HISTORY

In 1978, a filter cover failed on a vapor degreaser unit resulting in the spill of 2000-5000 gallons of trichloroethylene (TCE). According to Carrier officials, this material was washed into Nonconnah Creek by the local fire department. Soil samples collected by Tennessee Department of Health and Environment in April 1986, showed residual TCE present at the spill site. Prior to the implementation of RCRA, Carrier operated an unlined lagoon, approximately 214 cu. ft. in volume, for the storage of TCE-contaminated paint sludges. Wastes and soil were removed from this lagoon which was closed just prior to November 19, 1980. The exact location of this impoundment has not yet been determined. In January 1985, following a heavy rainfall, a TCE leak from underground pipes was discovered. A clean-up effort by the company resulted in the recovery of 542 gallons of TCE. As a result of the spill, monitoring wells were installed into the Memphis Sands Aquifer on-site, and in January 1986, the state detected TCE contamination in several of the wells. TCE has also been detected in the raw water from the two Collierville municipal wells on the property.

## SUMMARY AND CONCLUSIONS

Sample results show trichloroethylene (TCE) present in both wells of the city's west well field. TCE was still present at reduced levels in the west field's water after aeration and finishing. The TCE is assumed to be from the Carrier Air Conditioning site due to its proximity to the field.

The middle and west wells of the city's east well field contained aminonaphthalenol. The compound is used commercially as a polymerization inhibitor. The source of the aminonaphthalenol cannot be determined within the scope of this study. Samples of the finished water from the city's east field showed no trace of the compound.

## SITE GEOLOGY/HYDROGEOLOGY

The area around Collierville, Tennessee includes two important aquifers. The topmost of these units is the Jackson formation. This formation is composed mostly of clay that can be locally sandy or silty. The Jackson formation is known to be over 300 feet thick below downtown Memphis, but it thins out rapidly toward Collierville, in southeast Shelby County.

Beneath the Jackson clay is a thick series of alternating sands and clays collectively known as the Claiborne group. The two lower sand units are prolific artesian aquifers known locally as the Memphis Sand Aquifer or the "500-foot sand." It is within this aquifer that the Collierville Municipal wells are finished. The aquifer provides over 95 percent of the ground water used in the Memphis area.

Below the Claiborne group is a series of sediments referred to as the Wilcox group. They contain a sand unit between two confining clay layers. The sand, known as the Fort Pillow or "1400-foot sand", is also an artesian aquifer which supplies about 5 percent of the ground water in the Memphis area.

There are an estimated 2000 feet of unconsolidated sediments below the Wilcox group before reaching bedrock. However, they are of no hydrogeologic interest to this investigation.

## DATA DISCUSSION

Eight drinking water samples were collected during this investigation. Each of the five wells (two in the west field, three in the east field) which supply drinking water to Collierville, was sampled. Also, the aerated water at the west field was sampled prior to its arriving at the storage tank. The finished water was sampled from both well fields. Sampling locations are described in Table I and indicated in Figures II and III.

The samples were analyzed for the normal Target Compound List (TCL) parameters. Analytical data are summarized in Table III. Field measurement results of the samples collected are listed in Table II. Complete analytical data are attached as Appendix A.

Sample results show definite contamination of the city's west well field by TCE. Aeration and treatment of the water resulted in a considerable reduction of the TCE concentration, but the compound was still detectable. The east well field is presumed to contain aminonaphthalenol in the ground water but the compound was not detected after treatment, prior to distribution. Inorganic compounds detected were normal and at concentrations acceptable for municipal water, when compared to maximum contaminant levels (MCL) listed in 40 CFR 141 and 143. Field measurement results showed a pH of 8.75 for the finished water of the west field. City water department personnel were informed of the reading, and were unable to explain it.

#### METHODOLOGY

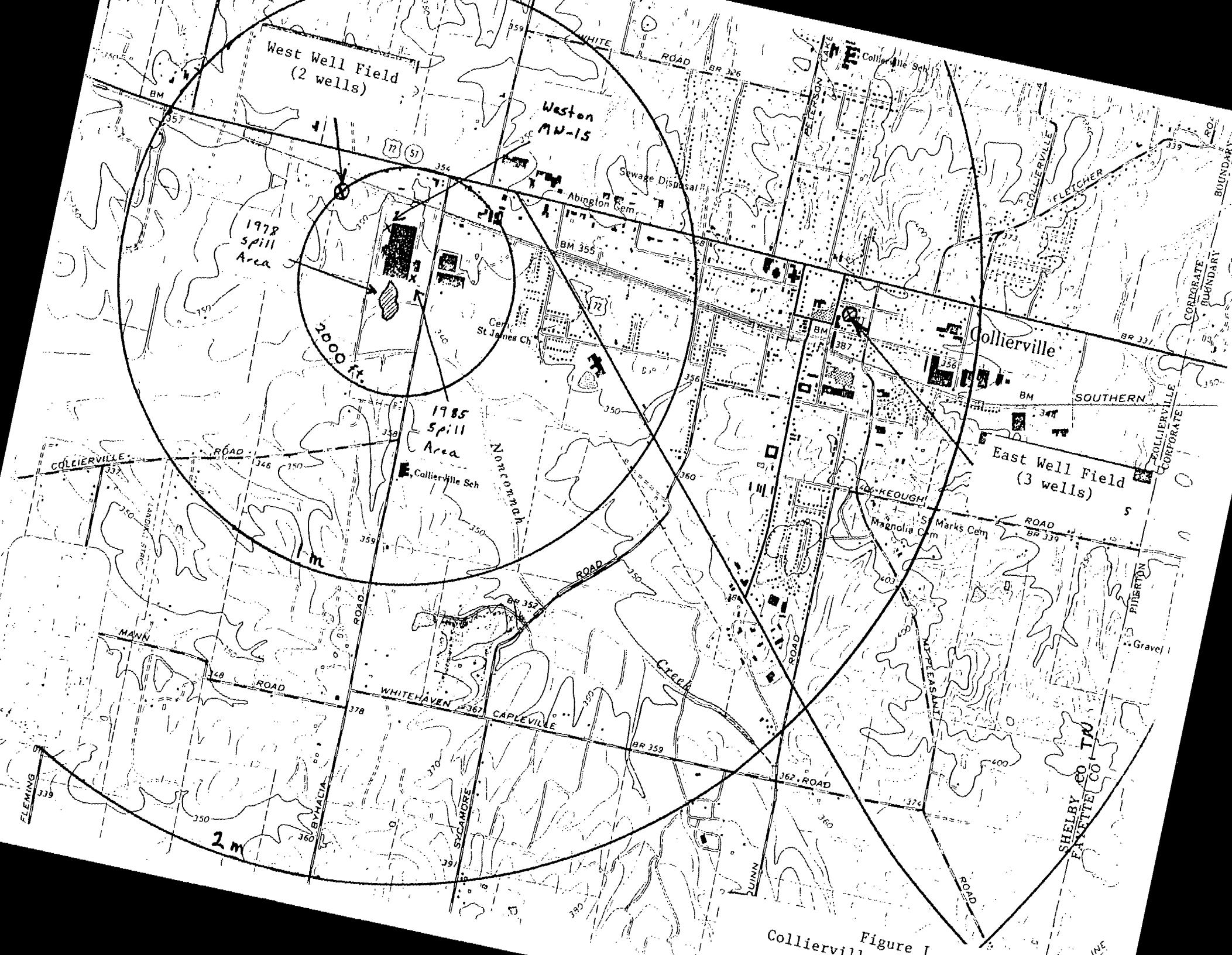
This investigation was conducted in accordance with the "Remedial Sampling Investigation Study Plan, Carrier Air Conditioning Site, Collierville Municipal Wells, Collierville, Tennessee." All sample collection and sample handling techniques utilized were as described in the Engineering Support Branch Standard Operating Procedures and Quality Assurance Manual; US-EPA, Region IV, Environmental Services Division, April 1, 1986. Sample analyses were performed by the ESD Analytical Support Branch in accordance with the Analytical Support Branch Operations and Quality Control Manual, June 1985.

TABLE I  
SAMPLE LOCATION DESCRIPTION  
COLLIERVILLE MUNICIPAL WELLS  
COLLIERVILLE, TENNESSEE

<u>Sample Number</u>	<u>Location Description</u>
CMW-E	A sample collected from the east well of the west field
CMW-W	A sample collected from the west well of the west field
CMW-A	A sample collected after the aerator of the west field
CMW-F	A sample of the finished water from the west field
CME-E	A sample collected from the east well of the east field
CME-M	A sample collected from the middle well of the east field
CME-W	A sample collected from the west well of the east field
CME-F	A sample of the finished water from the east field.

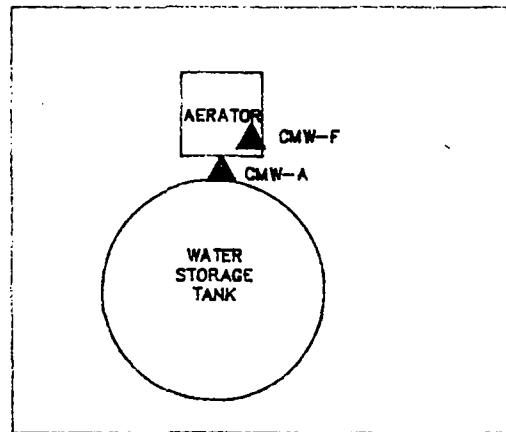
TABLE II  
FIELD MEASUREMENTS OF DRINKING WATER SAMPLES  
COLLIERVILLE MUNICIPAL WELLS  
COLLIERVILLE, TENNESSEE

Sample Number	pH (su)	Conductivity (umhos/cm <sup>2</sup> )	Temperature (°C)
CMW-E	5.65	50	20.0
CMW-W	5.85	50	19.0
CMW-A	6.15	50	22.0
CMW-F	8.75	100	21.0
CME-E	5.50	30	19.0
CME-M	5.60	25	20.0
CME-W	5.75	65	20.5
CME-F	6.50	65	21.5



*Collierville* Figure 1

⊕ CMW-W



⊕ CMW-E

Z

FIGURE II  
WEST WELL FIELD  
CITY OF COLLIERVILLE DRINKING WATER  
COLLIERVILLE, TENNESSEE

NOT TO SCALE

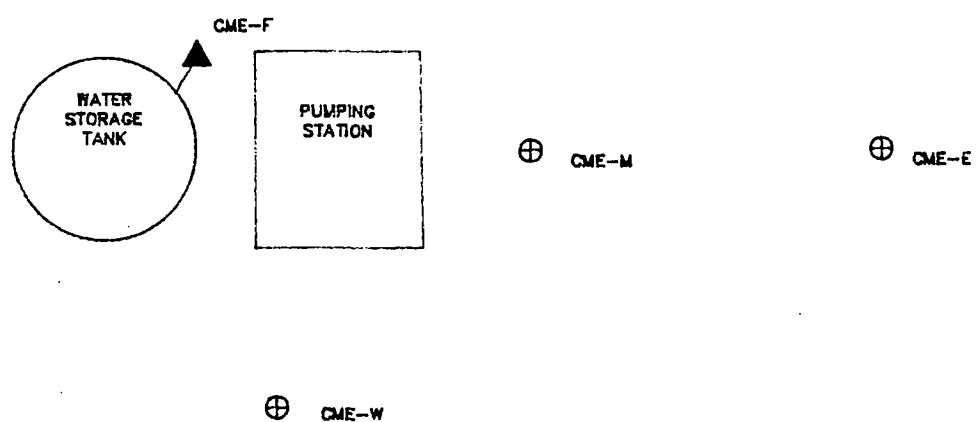


FIGURE III  
EAST WELL FIELD  
CITY OF COLLIERVILLE DRINKING WATER  
COLLIERVILLE, TENNESSEE

NOT TO SCALE.

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TABLE III  
DRINKING WATER SAMPLE RESULTS  
CARRIER AIR CONDITIONING  
COLLIERVILLE, TENNESSEE  
JULY, 1988

	CMW-E 07/19/88 0900	CMW-W 07/19/88 1020	CMW-A 07/19/88 1110	CMW-F 07/19/88 1145	CME-E 07/19/88 1330	CME-M 07/19/88 1415	CME-W 07/19/88 1510	CME-F 07/19/88 1545
INORGANIC ELEMENT/COMPOUND	UG/L							
BARIUM	12	12	12	11	--	--	12	10
COPPER	--	--	12	--	--	--	--	--
ZINC	--	29	34	--	--	--	--	--
	MG/L							
CALCIUM	2.5	2.5	2.5	11	1.7	1.6	3.5	7.6
MAGNESIUM	0.95	0.96	0.95	0.99	0.67	0.61	1.3	0.89
IRON	--	--	0.088	--	--	--	--	--
SODIUM	6.2	6.9	7.6	7.8	4.7	2.8	8.6	5.4
EXTRACTABLE ORGANIC COMPOUNDS	UG/L							
AMINONAPHTHALENOL	--	--	--	--	--	2JN	--	--
AMINONAPHTHALENOL (2 ISOMERS)	--	--	--	--	--	7JN	--	--
PURGEABLE ORGANIC COMPOUNDS	UG/L							
TRICHLOROETHENE(TRICHLOROETHYLENE)	4.9J	8.8	2.9J	2.5J	--	--	--	--

\*\*\*\*\*

\*\*\*FOOTNOTES\*\*\*

NA - NOT ANALYZED

J - ESTIMATED VALUE

N - PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL

-- - MATERIAL WAS ANALYZED FOR BUT NOT DETECTED

**APPENDIX A**

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/12/88

METALS DATA REPORT

\*\*\*  
\*\* PROJECT NO. 88-509 SAMPLE NO. 27907 SAMPLE TYPE: GROUNDWATER PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY \*\*  
\*\* SOURCE: CARRIER AIR CONDITIONER CITY: COLLIERVILLE ST: TN \*\*  
\*\* STATION ID: CMW-E WEST FIELD, EAST WALL COLLECTION START: 07/19/88 0900 STOP: 00/00/00 \*\*  
\*\*

UG/L ANALYTICAL RESULTS

10U	SILVER
30U	ARSENIC
NA	BORON
12	BARIUM
5U	BERYLLIUM
5U	CADMIUM
10U	COBALT
10U	CHROMIUM
10U	COPPER
10U	MOLYBDENUM
20U	NICKEL
40U	LEAD
30U	ANTIMONY
40U	SELENIUM
25U	TIN
10U	STRONTIUM
50U	TELLURIUM
10U	TITANIUM
100U	THALLIUM
10U	VANADIUM
10U	YTTRIUM
10U	ZINC
NA	ZIRCONIUM
0.2U	MERCURY
100U	ALUMINUM
10U	MANGANESE

MG/L ANALYTICAL RESULTS

2.5	CALCIUM
0.95	MAGNESIUM
0.050U	IRON
6.2	SODIUM
2U	POTASSIUM

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/12/88

METALS DATA REPORT

\*\*\*  
 \*\* PROJECT NO. 88-509 SAMPLE NO. 27909 SAMPLE TYPE: GROUNDWATE PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY \* \* \*  
 \*\* SOURCE: CARRIER AIR CONDITION CITY: COLLIERVILLE ST: TN \*\*  
 \*\* STATION ID: CMW-W, WEST FIELD WEST WALL COLLECTION START: 07/19/88 1020 STOP: 00/00/00 \*\*  
 \*\*

UG/L ANALYTICAL RESULTS

10U	SILVER
30U	ARSENIC
NA	BORON
12	BARIUM
5U	BERYLLIUM
5U	CADMIUM
10U	COBALT
10U	CHROMIUM
10U	COPPER
10U	MOLYBDENUM
20U	NICKEL
40U	LEAD
30U	ANTIMONY
40U	SELENIUM
25U	TIN
10U	STRONTIUM
50U	TELLURIUM
10U	TITANIUM
100U	THALLIUM
10U	VANADIUM
10U	YTTRIUM
29	ZINC
NA	ZIRCONIUM
0.2U	MERCURY
100U	ALUMINUM
10U	MANGANESE

MG/L ANALYTICAL RESULTS

2.5	CALCIUM
0.96	MAGNESIUM
0.050U	IRON
6.9	SODIUM
2U	POTASSIUM

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/12/88

## METALS DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27910 SAMPLE TYPE: GROUNDWATE PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY  
\*\*\* SOURCE: CARRIER AIR CONDITION CITY: COLLIERVILLE ST: TN  
\*\*\* STATION ID: CMW-A, WEST FIELD AERATOR COLLECTION START: 07/19/88 1110 STOP: 00/00/00

## ANALYTICAL RESULTS

1OU	SILVER
3OU	ARSENIC
NA	BORON
12	BARIUM
5U	BERYLLIUM
5U	CADMIUM
1OU	COBALT
1OU	CHROMIUM
12	COPPER
1OU	MOLBYDBENUM
2OU	NICKEL
4OU	LEAD
3OU	ANTIMONY
4OU	SELENIUM
25U	TIN
1OU	STRONTIUM
5OU	TELLURIUM
1OU	TITANIUM
100U	THALLIUM
1OU	VANADIUM
1OU	YTTRIUM
34	ZINC
NA	ZIRCONIUM
0.2U	MERCURY
100U	ALUMINUM
1OU	MANGANESE

\*\*\*\*\* ANALYTICAL RESULTS \*\*\*\*\*

2.5	CALCIUM
0.95	MAGNESIUM
0.088	IRON
7.6	SODIUM
2U	POTASSIUM

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/12/88

METALS DATA REPORT

\*\*\*  
\*\* PROJECT NO. 88-509 SAMPLE NO. 27911 SAMPLE TYPE: GROUNDWATE PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY \*\*  
\*\* SOURCE: CARRIER AIR CONDITIO CITY: COLLIERVIL ST: TN \*\*  
\*\* STATION ID: CMW-F, WEST FIELD FINISHED COLLECTION START: 07/19/88 1145 STOP: 00/00/00 \*\*  
\*\*

UG/L ANALYTICAL RESULTS

10U SILVER  
30U ARSENIC  
NA BORON  
11 BARIUM  
5U BERYLLIUM  
5U CADMIUM  
10U COBALT  
10U CHROMIUM  
10U COPPER  
10U MOLYBDENUM  
20U NICKEL  
40U LEAD  
30U ANTIMONY  
40U SELENIUM  
25U TIN  
10U STRONTIUM  
50U TELLURIUM  
10U TITANIUM  
100U THALLIUM  
10U VANADIUM  
10U YTTRIUM  
10U ZINC  
NA ZIRCONIUM  
0.8U MERCURY  
100U ALUMINUM  
10U MANGANESE

MG/L ANALYTICAL RESULTS

11 CALCIUM  
0.99 MAGNESIUM  
0.050U IRON  
7.8 SODIUM  
2U POTASSIUM

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/12/88

METALS DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27912 SAMPLE TYPE: GROUNDWATE PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY  
\*\* SOURCE: CARRIER AIR CONDITIONING CITY: COLLIERVILLE ST: TN  
\*\* STATION ID: CME-E, EAST FIELD EAST WALL COLLECTION START: 07/19/88 1330 STOP: 00/00/00  
\*\*  
\*\*\*

UG/L ANALYTICAL RESULTS

10U SILVER  
30U ARSENIC  
NA BORON  
10U BARIUM  
5U BERYLLIUM  
5U CADMIUM  
10U COBALT  
10U CHROMIUM  
10U COPPER  
10U MOLYBDENUM  
20U NICKEL  
40U LEAD  
30U ANTIMONY  
40U SELENIUM  
25U TIN  
10U STRONTIUM  
50U TELLURIUM  
10U TITANIUM  
100U THALLIUM  
10U VANADIUM  
10U YTTRIUM  
10U ZINC  
NA ZIRCONIUM  
0.2U MERCURY  
100U ALUMINUM  
10U MANGANESE

MG/L ANALYTICAL RESULTS

1.7 CALCIUM  
0.67 MAGNESIUM  
0.050U IRON  
4.7 SODIUM  
2U POTASSIUM

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/12/88

## METALS DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27913 SAMPLE TYPE: GROUNDWATE PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY  
\*\* SOURCE: CARRIER AIR CONDITIONING CITY: COLLIERVILLE ST: TN  
\*\* STATION ID: CME-M EAST FIELD MIDDLE WALL COLLECTION START: 07/19/88 1415 STOP: 00/00/0

## UG/L ANALYTICAL RESULTS

1OU	SILVER
3OU	ARSENIC
NA	BORON
1OU	BARIUM
5U	BERYLLOIUM
5U	CADMIUM
1OU	COBALT
1OU	CHROMIUM
1OU	COPPER
1OU	MOLYBDENUM
2OU	NICKEL
4OU	LEAD
3OU	ANTIMONY
4OU	SELENIUM
25U	TIN
1OU	STRONTIUM
5OU	TELLURIUM
1OU	TITANIUM
100U	THALLIUM
1OU	VANADIUM
1OU	YTTRIUM
1OU	ZINC
NA	ZIRCONIUM
0.2U	MERCURY
100U	ALUMINUM
1OU	MANGANESE

## ANALYTICAL RESULTS

1.6	CALCIUM
0.61	MAGNESIUM
0.050U	IRON
2.8	SODIUM
2U	POTASSIUM

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/12/88

METALS DATA REPORT

\*\*\*  
\*\* PROJECT NO. 88-509 SAMPLE NO. 27914 SAMPLE TYPE: GROUNDWATE PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY \*\*  
\*\* SOURCE: CARRIER AIR CONDITION CITY: COLLIERVILLE ST: TN \*\*  
\*\* STATION ID: CME-W, EAST FIELD WEST WALL COLLECTION START: 07/19/88 1510 STOP: 00/00/00 \*\*  
\*\*

UG/L ANALYTICAL RESULTS

10U	SILVER
30U	ARSENIC
NA	BORON
12	BARIUM
5U	BERYLLIUM
5U	CADMIUM
10U	COBALT
10U	CHROMIUM
10U	COPPER
10U	MOLYBDENUM
20U	NICKEL
40U	LEAD
30U	ANTIMONY
40U	SELENIUM
25U	TIN
10U	STRONTIUM
50U	TELLURIUM
10U	TITANIUM
100U	THALLIUM
10U	VANADIUM
10U	YTTRIUM
10U	ZINC
NA	ZIRCONIUM
0.2U	MERCURY
100U	ALUMINUM
10U	MANGANESE

MG/L ANALYTICAL RESULTS

3.5	CALCIUM
1.3	MAGNESIUM
0.050U	IRON
8.6	SODIUM
2U	POTASSIUM

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/12/88

METALS DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27915 SAMPLE TYPE: GROUNDWATE PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY  
\*\*\* SOURCE: CARRIER AIR CONDITIO CITY: COLLIERVIL ST: TN  
\*\*\* STATION ID: CME-F, EAST FIELD FINISHED COLLECTION START: 07/19/88 1545 STOP: 00/00/00

## UG/L ANALYTICAL RESULTS

1OU	SILVER
3OU	ARSENIC
NA	BORON
10	BARIUM
5U	BERYLLOIUM
5U	CADMIUM
1OU	COBALT
1OU	CHROMIUM
1OU	COPPER
1OU	MOLYBDENUM
2OU	NICKEL
4OU	LEAD
3OU	ANTIMONY
4OU	SELENIUM
25U	TIN
1OU	STRONTIUM
5OU	TELLURIUM
1OU	TITANIUM
1000U	THALLIUM
1OU	VANADIUM
1OU	YTTRIUM
1OU	ZINC
NA	ZIRCONIUM
0.8U	MERCURY
1000U	ALUMINUM
1OU	MANGANESE

MG/I ANALYTICAL RESULTS

7.6 CALCIUM  
 0.89 MAGNESIUM  
 0.050U IRON  
 5.4 SODIUM  
 2U POTASSIUM

**\*\*\*REMARKS\*\*\***

**\*\*\*REMARKS\*\*\***

\*\*\*FOOTNOTES\*\*\*

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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/08/88

EXTRACTABLE ORGANICS DATA REPORT

\*\* PROJECT NO. 88-509 SAMPLE NO. 27907 SAMPLE TYPE: GROUNDWATE  
\*\* SOURCE: CARRIER AIR CONDITIONING  
\*\* STATION ID: CMW-E WEST FIELD, EAST WALL

PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY  
CITY: COLLIERVILLE ST: TN  
COLLECTION START: 07/19/88 0900 STOP: 00/00/00

UG/L ANALYTICAL RESULTS

1OU BIS(2-CHLOROETHYL) ETHER  
1OU BIS(2-CHLOROISOPROPYL) ETHER  
1OU N-NITROSODI-N-PROPYLAMINE  
1OU HEXACHLOROETHANE  
1OU NITROBENZENE  
1OU ISOPHORONE  
1OU BIS(2-CHLOROETHOXY) METHANE  
1OU 1,2,4-TRICHLOROBENZENE  
1OU NAPHTHALENE  
1OU 4-CHLOROANILINE  
1OU HEXACHLOROBUTADIENE  
1OU 2-METHYLNAPHTHALENE  
1OU HEXACHLOROCYCLOPENTADIENE (HCCP)  
1OU 2-CHLORONAPHTHALENE  
1OU 2-NITROANILINE  
1OU DIMETHYL PHTHALATE  
1OU ACENAPHTHYLENE  
1OU 2,6-DINITROTOLUENE  
1OU 3-NITROANILINE  
1OU ACENAPHTHENE  
1OU DIBENZO(FURAN  
1OU 2,4-DINITROTOLUENE  
1OU DIETHYL PHTHALATE  
1OU FLUORENE  
1OU 4-CHLOROPHENYL PHENYL ETHER  
1OU 4-NITROANILINE  
1OU N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
1OU 4-BROMOPHENYL PHENYL ETHER  
1OU HEXACHLOROBENZENE (HCB)  
1OU PHENANTHRENE  
1OU ANTHRACENE  
1OU DI-N-BUTYLPHthalate

UG/L ANALYTICAL RESULTS

1OU FLUORANTHENE  
1OU PYRENE  
1OU BENZYL BUTYL PHTHALATE  
1OU 3,3'-DICHLOROBENZIDINE  
1OU BENZO(A)ANTHRACENE  
1OU CHRYSENE  
1OU BIS(2-ETHYLHEXYL) PHTHALATE  
1OU DI-N-OCTYLPHthalate  
1OU BENZO(B AND/OR K)FLUORANTHENE  
1OU BENZO-A-PYRENE  
1OU INDENO (1,2,3-CD) PYRENE  
1OU DIBENZO(A,H)ANTHRACENE  
1OU BENZO(G,H)PERYLENE  
1OU PHENOL  
1OU 2-CHLOROPHENOL  
2OU BENZYL ALCOHOL  
1OU 2-METHYLPHENOL  
1OU (3-AND/OR 4-)METHYLPHENOL  
1OU 2-NITROPHENOL  
1OU 2,4-DIMETHYLPHENOL  
2OU BENZOIC ACID  
1OU 2,4-DICHLOROPHENOL  
1OU 4-CHLORO-3-METHYLPHENOL  
1OU 2,4,6-TRICHLOROPHENOL  
1OU 2,4,5-TRICHLOROPHENOL  
2OU 2,4-DINITROPHENOL  
1OU 4-NITROPHENOL  
1OU 2,3,4,6-TETRACHLOROPHENOL  
2OU 2-METHYL-4,6-DINITROPHENOL  
2OU PENTACHLOROPHENOL

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/10/88

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27909 SAMPLE TYPE: GROUNDWATER  
\*\* SOURCE: CARRIER AIR CONDITIONING  
\*\* STATION ID: CMW-W, WEST FIELD WEST WALL

PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY  
CITY: COLLIERVILLE ST: TN  
COLLECTION START: 07/19/88 1020 STOP: 00/00/00

UG/L ANALYTICAL RESULTS

1OU BIS(2-CHLOROETHYL) ETHER  
1OU BIS(2-CHLOROISOPROPYL) ETHER  
1OU N-NITROSODI-N-PROPYLAMINE  
1OU HEXACHLOROETHANE  
1OU NITROBENZENE  
1OU ISOPHORONE  
1OU BIS(2-CHLOROETHOXY) METHANE  
1OU 1,2,4-TRICHLOROBENZENE  
1OU NAPHTHALENE  
1OU 4-CHLORANILINE  
1OU HEXACHLOROBUTADIENE  
1OU 2-METHYLNAPHTHALENE  
1OU HEXACHLOROCYCLOPENTADIENE (HCCP)  
1OU 2-CHLORONAPHTHALENE  
1OU 2-NITROANILINE  
1OU DIMETHYL PHTHALATE  
1OU ACENAPHTHYLENE  
1OU 2,6-DINITROTOLUENE  
1OU 3-NITROANILINE  
1OU ACENAPHTHENE  
1OU DIBENZOFURAN  
1OU 2,4-DINITROTOLUENE  
1OU DIETHYL PHTHALATE  
1OU FLUORENE  
1OU 4-CHLOROPHENYL PHENYL ETHER  
1OU 4-NITROANILINE  
1OU N-NITROSDIPHENYLAMINE/DIPHENYLAMINE  
1OU 4-BROMOPHENYL PHENYL ETHER  
1OU HEXACHLOROBENZENE (HCB)  
1OU PHENANTHRENE  
1OU ANTHRACENE  
1OU DI-N-BUTYLPHthalate

UG/L ANALYTICAL RESULTS

1OU FLUORANTHENE  
1OU PYRENE  
1OU BENZYL BUTYL PHTHALATE  
1OU 3,3'-DICHLOROBENZIDINE  
1OU BENZO(A)ANTHRACENE  
1OU CHRYSENE  
1OU BIS(2-ETHYLHEXYL) PHTHALATE  
1OU DI-N-OCTYLPHthalate  
1OU BENZO(B AND/OR K)FLUORANTHENE  
1OU BENZO-A-PYRENE  
1OU INDENO (1,2,3-CD) PYRENE  
1OU DIBENZO(A,H)ANTHRACENE  
1OU BENZO(GHI)PERYLENE  
1OU PHENOL  
1OU 2-CHLOROPHENOL  
2OU BENZYL ALCOHOL  
1OU 2-METHYLPHENOL  
1OU (3-AND/OR 4-)METHYLPHENOL  
1OU 2-NITROPHENOL  
1OU 2,4-DIMETHYLPHENOL  
2OU BENZOIC ACID  
1OU 2,4-DICHLOROPHENOL  
1OU 4-CHLORO-3-METHYLPHENOL  
1OU 2,4,6-TRICHLOROPHENOL  
2OU 2,4,5-TRICHLOROPHENOL  
2OU 2,4-DINITROPHENOL  
2OU 4-NITROPHENOL  
1OU 2,3,4,6-TETRACHLOROPHENOL  
2OU 2-METHYL-4,6-DINITROPHENOL  
2OU PENTACHLOROPHENOL

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/10/88

EXTRACTABLE ORGANICS DATA REPORT

\*\*\*  
 \*\* PROJECT NO. 88-509 SAMPLE NO. 27910 SAMPLE TYPE: GROUNDWATER PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY \*\*  
 \*\* SOURCE: CARRIER AIR CONDITIO CITY: COLLIERVIL ST: TN \*\*  
 \*\* STATION ID: CMW-A, WEST FIELD AERATOR COLLECTION START: 07/19/88 1110 STOP: 00/00/00 \*\*  
 \*\*

UG/L ANALYTICAL RESULTS

1OU BIS(2-CHLOROETHYL) ETHER  
 1OU BIS(2-CHLOROISOPROPYL) ETHER  
 1OU N-NITROSODI-N-PROPYLAMINE  
 1OU HEXACHLOROETHANE  
 1OU NITROBENZENE  
 1OU ISOPHORONE  
 1OU BIS(2-CHLOROETHOXY) METHANE  
 1OU 1,2,4-TRICHLOROBENZENE  
 1OU NAPHTHALENE  
 1OU 4-CHLOROANILINE  
 1OU HEXACHLOROBUTADIENE  
 1OU 2-METHYLNAPHTHALENE  
 1OU HEXACHLOROCYCLOPENTADIENE (HCCP)  
 1OU 2-CHLORONAPHTHALENE  
 1OU 2-NITROANILINE  
 1OU DIMETHYL PHTHALATE  
 1OU ACENAPHTHYLENE  
 1OU 2,6-DINITROTOLUENE  
 1OU 3-NITROANILINE  
 1OU ACENAPHTHENE  
 1OU DIBENZOFURAN  
 1OU 2,4-DINITROTOLUENE  
 1OU DIETHYL PHTHALATE  
 1OU FLUORENE  
 1OU 4-CHLOROPHENYL PHENYL ETHER  
 1OU 4-NITROANILINE  
 1OU N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
 1OU 4-BROMOPHENYL PHENYL ETHER  
 1OU HEXACHLOROBENZENE (HCB)  
 1OU PHENANTHRENE  
 1OU ANTHRACENE  
 1OU DI-N-BUTYLPHthalate

UG/L ANALYTICAL RESULTS

1OU FLUORANTHENE  
 1OU PYRENE  
 1OU BENZYL BUTYL PHTHALATE  
 1OU 3,3'-DICHLOROBENZIDINE  
 1OU BENZO(A)ANTHRACENE  
 1OU CHRYSENE  
 1OU BIS(2-ETHYLHEXYL) PHTHALATE  
 1OU DI-N-OCTYLPHthalate  
 1OU BENZO(B AND/OR K)FLUORANTHENE  
 1OU BENZO-A-PYRENE  
 1OU INDENO (1,2,3-CD) PYRENE  
 1OU DIBENZO(A,H)ANTHRACENE  
 1OU BENZO(GHI)PERYLENE  
 1OU PHENOL  
 1OU 2-CHLOROPHENOL  
 2OU BENZYL ALCOHOL  
 1OU 2-METHYLPHENOL  
 1OU (3-AND/OR 4-)METHYLPHENOL  
 1OU 2-NITROPHENOL  
 1OU 2,4-DIMETHYLPHENOL  
 2OU BENZOIC ACID  
 1OU 2,4-DICHLOROPHENOL  
 1OU 4-CHLORO-3-METHYLPHENOL  
 1OU 2,4,6-TRICHLOROPHENOL  
 1OU 2,4,5-TRICHLOROPHENOL  
 2OU 2,4-DINITROPHENOL  
 2OU 4-NITROPHENOL  
 1OU 2,3,4,6-TETRACHLOROPHENOL  
 2OU 2-METHYL-4,6-DINITROPHENOL  
 2OU PENTACHLOROPHENOL

•REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 , \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 , \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/10/88

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27911 SAMPLE TYPE: GROUNDWATE PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY  
\*\* SOURCE: CARRIER AIR CONDITION CITY: COLLIERVIL ST: TN  
\*\* STATION ID: CMW-F, WEST FIELD FINISHED COLLECTION START: 07/19/88 1145 STOP: 00/00/00  
\*\*  
\*\*\*

UG/L ANALYTICAL RESULTS

1OU BIS(2-CHLOROETHYL) ETHER  
1OU BIS(2-CHLOROISOPROPYL) ETHER  
1OU N-NITROSODI-N-PROPYLAMINE  
1OU HEXACHLOROETHANE  
1OU NITROBENZENE  
1OU ISOPHORONE  
1OU BIS(2-CHLOROETHOXY) METHANE  
1OU 1,2,4-TRICHLOROBENZENE  
1OU NAPHTHALENE  
1OU 4-CHLOROANILINE  
1OU HEXACHLOROBUTADIENE  
1OU 2-METHYLNAPHTHALENE  
1OU HEXACHLOROCYCLOPENTADIENE (HCCP)  
1OU 2-CHLORONAPHTHALENE  
1OU 2-NITROANILINE  
1OU DIMETHYL PHTHALATE  
1OU ACENAPHTHYLENE  
1OU 2,6-DINITROTOLUENE  
1OU 3-NITROANILINE  
1OU ACENAPHTHENE  
1OU DIBENZOFLURAN  
1OU 2,4-DINITROTOLUENE  
1OU DIETHYL PHTHALATE  
1OU FLUORENE  
1OU 4-CHLOROPHENYL PHENYL ETHER  
1OU 4-NITROANILINE  
1OU N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
1OU 4-BROMOPHENYL PHENYL ETHER  
1OU HEXACHLOROBENZENE (HCB)  
1OU PHENANTHRENE  
1OU ANTHRACENE  
1OU DI-N-BUTYLPHthalate

UG/L ANALYTICAL RESULTS

1OU FLUORANTHENE  
1OU PYRENE  
1OU BENZYL BUTYL PHTHALATE  
1OU 3,3'-DICHLOROBENZIDINE  
1OU BENZO(A)ANTHRACENE  
1OU CHRYSENE  
1OU BIS(2-ETHYLHEXYL) PHTHALATE  
1OU DI-N-OCTYLPHthalate  
1OU BENZO(B AND/OR K)FLUORANTHENE  
1OU BENZO-A-PYRENE  
1OU INDENO (1,2,3-CD) PYRENE  
1OU DIBENZO(A,H)ANTHRACENE  
1OU BENZO(GHI)PERYLENE  
1OU PHENOL  
1OU 2-CHLOROPHENOL  
2OU BENZYL ALCOHOL  
1OU 2-METHYLPHENOL  
1OU (3-AND/OR 4-)METHYLPHENOL  
1OU 2-NITROPHENOL  
1OU 2,4-DIMETHYLPHENOL  
2OU BENZOIC ACID  
1OU 2,4-DICHLOROPHENOL  
1OU 4-CHLORO-3-METHYLPHENOL  
1OU 2,4,6-TRICHLOROPHENOL  
2OU 2,4-DINITROPHENOL  
1OU 4-NITROPHENOL  
1OU 2,3,4,6-TETRACHLOROPHENOL  
2OU 2-METHYL-4,6-DINITROPHENOL  
2OU PENTACHLOROPHENOL

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/10/88

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27912 SAMPLE TYPE: GROUNDWATE  
\*\* SOURCE: CARRIER AIR CONDITIO  
\*\* STATION ID: CME-E, EAST FIELD EAST WALL

PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY  
CITY: COLLIERVIL ST: TN  
COLLECTION START: 07/19/88 1330 STOP: 00/00/00

UG/L ANALYTICAL RESULTS

10U BIS(2-CHLOROETHYL) ETHER  
10U BIS(2-CHLOROISOPROPYL) ETHER  
10U N-NITROSODI-N-PROPYLAMINE  
10U HEXACHLOROETHANE  
10U NITROBENZENE  
10U ISOPHORONE  
10U BIS(2-CHLOROETHOXY) METHANE  
10U 1,2,4-TRICHLOROBENZENE  
10U NAPHTHALENE  
10U 4-CHLORANILINE  
10U HEXACHLOROBUTADIENE  
10U 2-METHYLNAPHTHALENE  
10U HEXACHLOROCYCLOPENTADIENE (HCCP)  
10U 2-CHLORONAPHTHALENE  
10U 2-NITROANILINE  
10U DIMETHYL PHTHALATE  
10U ACENAPHTHYLENE  
10U 2,6-DINITROTOLUENE  
10U 3-NITROANILINE  
10U ACENAPHTHENE  
10U DIBENZO(FURAN  
10U 2,4-DINITROTOLUENE  
10U DIETHYL PHTHALATE  
10U FLUORENE  
10U 4-CHLOROPHENYL PHENYL ETHER  
10U 4-NITROANILINE  
10U N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
10U 4-BROMOPHENYL PHENYL ETHER  
10U HEXACHLOROBENZENE (HCB)  
10U PHENANTHRENE  
10U ANTHRACENE  
10U DI-N-BUTYLPHthalate

UG/L ANALYTICAL RESULTS

10U FLUORANTHENE  
10U PYRENE  
10U BENZYL BUTYL PHTHALATE  
10U 3,3'-DICHLOROBENZIDINE  
10U BENZO(A)ANTHRACENE  
10U CHRYSENE  
10U BIS(2-ETHYLHEXYL) PHTHALATE  
10U DI-N-OCTYLPHthalate  
10U BENZO(B AND/OR K)FLUORANTHENE  
10U BENZO-A-PYRENE  
10U INDENO (1,2,3-CD) PYRENE  
10U DIBENZO(A,H)ANTHRACENE  
10U BENZO(GHI)PERYLENE  
10U PHENOL  
10U 2-CHLOROPHENOL  
20U BENZYL ALCOHOL  
10U 2-METHYLPHENOL  
10U (3-AND/OR 4-)METHYLPHENOL  
10U 2-NITROPHENOL  
10U 2,4-DIMETHYLPHENOL  
20U BENZOIC ACID  
10U 2,4-DICHLOROPHENOL  
10U 4-CHLORO-3-METHYLPHENOL  
10U 2,4,6-TRICHLOROPHENOL  
10U 2,4,5-TRICHLOROPHENOL  
20U 2,4-DINITROPHENOL  
20U 4-NITROPHENOL  
10U 2,3,4,6-TETRACHLOROPHENOL  
20U 2-METHYL-4,6-DINITROPHENOL  
20U PENTACHLOROPHENOL

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/10/88

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* \* \* \* \* PROJECT NO. 88-509 SAMPLE NO. 27913 SAMPLE TYPE: GROUNDWATER  
\*\* SOURCE: CARRIER AIR CONDITIONING  
\*\* STATION ID: CME-M EAST FIELD MIDDLE WALL

PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY  
CITY: COLLIERVILLE ST: TN  
COLLECTION START: 07/19/88 1415 STOP: 00/00/00

UG/L ANALYTICAL RESULTS

1OU BIS(2-CHLOROETHYL) ETHER  
1OU BIS(2-CHLOROISOPROPYL) ETHER  
1OU N-NITROSODI-N-PROPYLAMINE  
1OU HEXACHLOROETHANE  
1OU NITROBENZENE  
1OU ISOPHORONE  
1OU BIS(2-CHLOROETHOXY) METHANE  
1OU 1,2,4-TRICHLOROBENZENE  
1OU NAPHTHALENE  
1OU 4-CHLOROANILINE  
1OU HEXACHLOROBUTADIENE  
1OU 2-METHYLNAPHTHALENE  
1OU HEXACHLOROCYCLOPENTADIENE (HCCP)  
1OU 2-CHLORONAPHTHALENE  
1OU 2-NITROANILINE  
1OU DIMETHYL PHTHALATE  
1OU ACENAPHTHYLENE  
1OU 2,6-DINITROTOLUENE  
1OU 3-NITROANILINE  
1OU ACENAPHTHENE  
1OU DIBENZOFURAN  
1OU 2,4-DINITROTOLUENE  
1OU DIETHYL PHTHALATE  
1OU FLUORENE  
1OU 4-CHLOROPHENYL PHENYL ETHER  
1OU 4-NITROANILINE  
1OU N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
1OU 4-BROMOPHENYL PHENYL ETHER  
1OU HEXACHLOROBENZENE (HCB)  
1OU PHENANTHRENE  
1OU ANTHRACENE  
1OU DI-N-BUTYLPHthalate

UG/L ANALYTICAL RESULTS

1OU FLUORANTHENE  
1OU PYRENE  
1OU BENZYL BUTYL PHTHALATE  
1OU 3,3'-DICHLOROBENZIDINE  
1OU BENZO(A)ANTHRACENE  
1OU CHRYSENE  
1OU BIS(2-ETHYLHEXYL) PHTHALATE  
1OU DI-N-OCTYLPHthalate  
1OU BENZOC B AND/OR K)FLUORANTHENE  
1OU BENZO-A-PYRENE  
1OU INDENO (1,2,3-CD) PYRENE  
1OU DIBENZO(A,H)ANTHRACENE  
1OU BENZO(GH)PERYLENE  
1OU PHENOL  
1OU 2-CHLOROPHENOL  
2OU BENZYL ALCOHOL  
1OU 2-METHYLPHENOL  
1OU (3-AND/OR 4-)METHYLPHENOL  
1OU 2-NITROPHENOL  
1OU 2,4-DIMETHYLPHENOL  
2OU BENZOIC ACID  
1OU 2,4-DICHLOROPHENOL  
1OU 4-CHLORO-3-METHYLPHENOL  
1OU 2,4,6-TRICHLOROPHENOL  
1OU 2,4,5-TRICHLOROPHENOL  
2OU 2,4-DINITROPHENOL  
2OU 4-NITROPHENOL  
1OU 2,3,4,6-TETRACHLOROPHENOL  
2OU 2-METHYL-4,6-DINITROPHENOL  
2OU PENTACHLOROPHENOL

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
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SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/10/88

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

\*\*\*  
\*\* PROJECT NO. 88-509 SAMPLE NO. 27913 SAMPLE TYPE: GROUNDWATE PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY \*\*  
\*\* SOURCE: CARRIER AIR CONDITIO CITY: COLLIERVIL ST: TN \*\*  
\*\* STATION ID: CME-M EAST FIELD MIDDLE WALL COLLECTION START: 07/19/88 1415 STOP: 00/00/00 \*\*  
\*\*  
\*\*\*

RESULTS UNITS COMPOUND  
2JN UG/L AMINONAPHTHALENOL

RESULTS UNITS COMPOUND

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/10/88

EXTRACTABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27914 SAMPLE TYPE: GROUNDWATER PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY \*\*\*  
\*\* SOURCE: CARRIER AIR CONDITIO CITY: COLLIERVIL ST: TN \*\*\*  
\*\* STATION ID: CME-W, EAST FIELD WEST WALL COLLECTION START: 07/19/88 1510 STOP: 00/00/00 \*\*\*  
\*\*

UG/L ANALYTICAL RESULTS

1OU BIS(2-CHLOROETHYL) ETHER  
1OU BIS(2-CHLOROISOPROPYL) ETHER  
1OU N-NITROSODI-N-PROPYLAMINE  
1OU HEXACHLOROETHANE  
1OU NITROBENZENE  
1OU ISOPHORONE  
1OU BIS(2-CHLOROETHOXY) METHANE  
1OU 1,2,4-TRICHLOROBENZENE  
1OU NAPHTHALENE  
1OU 4-CHLORANILINE  
1OU HEXACHLOROBUTADIENE  
1OU 2-METHYLNAPHTHALENE  
1OU HEXACHLOROCYCLOPENTADIENE (HCCP)  
1OU 2-CHLORONAPHTHALENE  
1OU 2-NITROANILINE  
1OU DIMETHYL PHTHALATE  
1OU ACENAPHTHYLENE  
1OU 2,6-DINITROTOLUENE  
1OU 3-NITROANILINE  
1OU ACENAPHTHENE  
1OU DIBENZOFURAN  
1OU 2,4-DINITROTOLUENE  
1OU DIETHYL PHTHALATE  
1OU FLUORENE  
1OU 4-CHLOROPHENYL PHENYL ETHER  
1OU 4-NITROANILINE  
1OU N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
1OU 4-BROMOPHENYL PHENYL ETHER  
1OU HEXACHLOROBENZENE (HCB)  
1OU PHENANTHRENE  
1OU ANTHRACENE  
1OU DI-N-BUTYLPHthalate

UG/L ANALYTICAL RESULTS

1OU FLUORANTHENE  
1OU PYRENE  
1OU BENZYL BUTYL PHTHALATE  
1OU 3,3'-DICHLOROBENZIDINE  
1OU BENZO(A)ANTHRACENE  
1OU CHRYSENE  
1OU BIS(2-ETHYLHEXYL) PHTHALATE  
1OU DI-N-OCTYLPHthalate  
1OU BENZO(B AND/OR K)FLUORANTHENE  
1OU BENZO-A-PYRENE  
1OU INDENO (1,2,3-CD) PYRENE  
1OU DIBENZO(A,H)ANTHRACENE  
1OU BENZO(GHI)PERYLENE  
1OU PHENOL  
1OU 2-CHLOROPHENOL  
2OU BENZYL ALCOHOL  
1OU 2-METHYLPHENOL  
1OU (3-AND/OR 4-)METHYLPHENOL  
1OU 2-NITROPHENOL  
1OU 2,4-DIMETHYLPHENOL  
2OU BENZOIC ACID  
1OU 2,4-DICHLOROPHENOL  
1OU 4-CHLORO-3-METHYLPHENOL  
1OU 2,4,6-TRICHLOROPHENOL  
2OU 2,4,5-TRICHLOROPHENOL  
2OU 2,4-DINITROPHENOL  
1OU 2,3,4,6-TETRACHLOROPHENOL  
2OU 2-METHYL-4,6-DINITROPHENOL  
2OU PENTACHLOROPHENOL

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/10/88

MISCELLANEOUS EXTRACTABLE COMPOUNDS - DATA REPORT

\*\*\*  
\*\* PROJECT NO. 88-509 SAMPLE NO. 27914 SAMPLE TYPE: GROUNDWATE PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY \*\*  
\*\* SOURCE: CARRIER AIR CONDITIONER CITY: COLLIERVILLE ST: TN \*\*  
\*\* STATION ID: CME-W, EAST FIELD WEST WALL COLLECTION START: 07/19/88 1510 STOP: 00/00/00 \*\*  
\*\*  
\*\*\*

RESULTS UNITS COMPOUND  
7JN UG/L AMINONAPHTHALENOL (2 ISOMERS)

RESULTS UNITS COMPOUND

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.  
\*R-QC INDICATES THAT DATA UNUSABLE. COMPOUND MAY OR MAY NOT BE PRESENT. RESAMPLING AND REANALYSIS IS NECESSARY FOR VERIFICATION.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/10/88

EXTRACTABLE ORGANICS DATA REPORT

\*\*\*  
\*\* PROJECT NO. 88-509 SAMPLE NO. 27915 SAMPLE TYPE: GROUNDWATER  
\*\* SOURCE: CARRIER AIR CONDITIONING  
\*\* STATION ID: CME-F, EAST FIELD FINISHED  
\*\*

PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY  
CITY: COLLIERVILLE ST: TN  
COLLECTION START: 07/19/88 1545 STOP: 00/00/00

UG/L ANALYTICAL RESULTS

1OU BIS(2-CHLOROETHYL) ETHER  
1OU BIS(2-CHLOROISOPROPYL) ETHER  
1OU N-NITROSODI-N-PROPYLAMINE  
1OU HEXACHLOROETHANE  
1OU NITROBENZENE  
1OU ISOPHORONE  
1OU BIS(2-CHLOROETHOXY) METHANE  
1OU 1,2,4-TRICHLOROBENZENE  
1OU NAPHTHALENE  
1OU 4-CHLOROANILINE  
1OU HEXACHLOROBUTADIENE  
1OU 2-METHYLNAPHTHALENE  
1OU HEXACHLOROCYCLOPENTADIENE (HCCP)  
1OU 2-CHLORONAPHTHALENE  
1OU 2-NITROANILINE  
1OU DIMETHYL PHTHALATE  
1OU ACENAPHTHYLENE  
1OU 2,6-DINITROTOLUENE  
1OU 3-NITROANILINE  
1OU ACENAPHTHENE  
1OU DIBENZOFURAN  
1OU 2,4-DINITROTOLUENE  
1OU DIETHYL PHTHALATE  
1OU FLUORENE  
1OU 4-CHLOROPHENYL PHENYL ETHER  
1OU 4-NITROANILINE  
1OU N-NITROSODIPHENYLAMINE/DIPHENYLAMINE  
1OU 4-BROMOPHENYL PHENYL ETHER  
1OU HEXACHLOROBENZENE (HCB)  
1OU PHENANTHRENE  
1OU ANTHRACENE  
1OU DI-N-BUTYLPHthalate

UG/L ANALYTICAL RESULTS

1OU FLUORANTHENE  
1OU PYRENE  
1OU BENZYL BUTYL PHTHALATE  
1OU 3,3'-DICHLOROBENZIDINE  
1OU BENZO(A)ANTHRACENE  
1OU CHRYSENE  
1OU BIS(2-ETHYLHEXYL) PHTHALATE  
1OU DI-N-OCTYLPHthalate  
1OU BENZO(B AND/OR K)FLUORANTHENE  
1OU BENZO-A-PYRENE  
1OU INDENO (1,2,3-CD) PYRENE  
1OU DIBENZO(A,H)ANTHRACENE  
1OU BENZO(GHI)PERYLENE  
1OU PHENOL  
1OU 2-CHLOROPHENOL  
2OU BENZYL ALCOHOL  
1OU 2-METHYLPHENOL  
1OU (3-AND/OR 4-)METHYLPHENOL  
1OU 2-NITROPHENOL  
1OU 2,4-DIMETHYLPHENOL  
2OU BENZOIC ACID  
1OU 2,4-DICHLOROPHENOL  
1OU 4-CHLORO-3-METHYLPHENOL  
1OU 2,4,6-TRICHLOROPHENOL  
2OU 2,4,5-TRICHLOROPHENOL  
2OU 2,4-DINITROPHENOL  
1OU 4-NITROPHENOL  
1OU 2,3,4,6-TETRACHLOROPHENOL  
2OU 2-METHYL-4,6-DINITROPHENOL  
2OU PENTACHLOROPHENOL

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/17/88

PESTICIDES/PCB'S DATA REPORT

UG/L	ANALYTICAL RESULTS	UG/L	ANALYTICAL RESULTS
0.019U	ALDRIN	0.40U	PCB-1232 (AROCLOL 1232)
0.015U	HEPTACHLOR	0.40U	PCB-1248 (AROCLOL 1248)
0.019U	HEPTACHLOR EPOXIDE	0.45U	PCB-1260 (AROCLOL 1260)
0.015U	ALPHA-BHC	0.40U	PCB-1016 (AROCLOL 1016)
0.028U	BETA-BHC	1.6U	TOXAPHENE
0.015U	GAMMA-BHC (LINDANE)	---	CHLORDENE /2
0.019U	DELTA-BHC	---	ALPHA-CHLORDENE /2
0.019U	ENDOSULFAN I (ALPHA)	---	BETA CHLORDENE /2
0.028U	DIELDRIN	---	GAMMA-CHLORDENE /2
0.038U	4,4'-DDT (P,P'-DDT)	---	1-HYDROXYCHLORDENE /2
0.028U	4,4'-DDE (P,P'-DDE)	---	GAMMA-CHLORDANE /2
0.038U	4,4'-DDD (P,P'-DDD)	---	TRANS-NONACHLOR /2
0.034U	ENDRIN	---	ALPHA-CHLORDANE /2
0.038U	ENDOSULFAN II (BETA)	---	CIS-NONACHLOR /2
0.042U	ENDOSULFAN SULFATE	---	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.18U	CHLORDANE (TECH. MIXTURE) /1	0.088U	METHOXYPHOR
0.40U	PCB-1242 (AROCLOL 1242)	0.038U	ENDRIN KETONE
0.45U	PCB-1254 (AROCLOL 1254)		
0.40U	PCB-1221 (AROCLOL 1221)		

\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE      \*NA-NOT ANALYZED      \*NAI-INTERFERENCES      \*J-ESTIMATED VALUE      \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN      \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.      C-CONFIRMED BY GC/MS  
 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS.      2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/17/88

PESTICIDES/PCB'S DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27909 SAMPLE TYPE: GROUNDWATE PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY \*\*\*  
\*\*\* SOURCE: CARRIER AIR CONDITIONER CITY: COLLIERVILLE ST: TN \*\*\*  
\*\*\* STATION ID: CMW-W, WEST FIELD WEST WALL COLLECTION START: 07/19/88 1020 STOP: 00/00/00 \*\*\*  
\*\*\*

UG/L ANALYTICAL RESULTS

0.019U	ALDRIN
0.015U	HEPTACHLOR
0.019U	HEPTACHLOR EPOXIDE
0.015U	ALPHA-BHC
0.028U	BETA-BHC
0.015U	GAMMA-BHC (LINDANE)
0.019U	DELTA-BHC
0.019U	ENDOSULFAN I (ALPHA)
0.028U	DIELDRIN
0.038U	4,4'-DDT (P,P'-DDT)
0.028U	4,4'-DDE (P,P'-DDE)
0.038U	4,4'-DDD (P,P'-DDD)
0.034U	ENDRIN
0.038U	ENDOSULFAN II (BETA)
0.042U	ENDOSULFAN SULFATE
0.18U	CHLORDANE (TECH. MIXTURE) /1
0.40U	PCB-1242 (AROCLOL 1242)
0.45U	PCB-1254 (AROCLOL 1254)
0.40U	PCB-1221 (AROCLOL 1221)

UG/L ANALYTICAL RESULTS

0.40U	PCB-1232 (AROCLOL 1232)
0.40U	PCB-1248 (AROCLOL 1248)
0.45U	PCB-1260 (AROCLOL 1260)
0.40U	PCB-1016 (AROCLOL 1016)
1.6U	TOXAPHENNE
1.6U	CHLORDENE /2
---	ALPHA-CHLORDENE /2
---	BETA CHLORDENE /2
---	GAMMA-CHLORDENE /2
---	1-HYDROXYCHLORDENE /2
---	GAMMA-CHLORDANE /2
---	TRANS-NONACHLOR /2
---	ALPHA-CHLORDANE /2
---	CIS-NONACHLOR /2
0.088U	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.038U	METHOXYCHLOR
0.038U	ENDRIN KETONE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/17/88

PESTICIDES/PCB'S DATA REPORT

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\*\* PROJECT NO. 88-509 SAMPLE NO. 27910 SAMPLE TYPE: GROUNDWATE PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY \*\*  
\*\* SOURCE: CARRIER AIR CONDITIO CITY: COLLIERVILLE ST: TN \*\*  
\*\* STATION ID: CMW-A, WEST FIELD AERATOR COLLECTION START: 07/19/88 1110 STOP: 00/00/00 \*\*  
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UG/L ANALYTICAL RESULTS

0.019U	ALDRIN
0.015U	HEPTACHLOR
0.019U	HEPTACHLOR EPOXIDE
0.015U	ALPHA-BHC
0.028U	BETA-BHC
0.015U	GAMMA-BHC (LINDANE)
0.019U	DELTA-BHC
0.019U	ENDOSULFAN I (ALPHA)
0.028U	DIELDRIN
0.038U	4,4'-DDT (P,P'-DDT)
0.028U	4,4'-DDE (P,P'-DDE)
0.038U	4,4'-DDD (P,P'-DDD)
0.034U	ENDRIN
0.038U	ENDOSULFAN II (BETA)
0.042U	ENDOSULFAN SULFATE
0.18U	CHLORDANE (TECH. MIXTURE) /1
0.40U	PCB-1242 (AROCLOL 1242)
0.45U	PCB-1254 (AROCLOL 1254)
0.40U	PCB-1221 (AROCLOL 1221)

\*\*\*  
UG/L ANALYTICAL RESULTS

0.40U	PCB-1232 (AROCLOL 1232)
0.40U	PCB-1248 (AROCLOL 1248)
0.45U	PCB-1260 (AROCLOL 1260)
0.40U	PCB-1016 (AROCLOL 1016)
1.6U	TOXAPHENE
---	CHLORDENE /2
---	ALPHA-CHLORDENE /2
---	BETA CHLORDENE /2
---	GAMMA-CHLORDENE /2
---	1-HYDROXYCHLORDENE /2
---	GAMMA-CHLORDANE /2
---	TRANS-NONACHLOR /2
---	ALPHA-CHLORDANE /2
---	CIS-NONACHLOR /2
---	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.088U	METHOXYSCHLOR
0.038U	ENDRIN KETONE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/17/88

PESTICIDES/PCB'S DATA REPORT

\*\* PROJECT NO. 88-509 SAMPLE NO. 27911 SAMPLE TYPE: GROUNDWATE  
\*\* SOURCE: CARRIER AIR CONDITIONING  
\*\* STATION ID: CMW-F, WEST FIELD FINISHED

PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY  
CITY: COLLIERVILLE ST: TN  
COLLECTION START: 07/19/88 1145 STOP: 00/00/00

UG/L ANALYTICAL RESULTS

UG/L ANALYTICAL RESULTS

0.019U	ALDRIN
0.019U	HEPTACHLOR
0.019U	HEPTACHLOR EPOXIDE
0.015U	ALPHA-BHC
0.028U	BETA-BHC
0.015U	GAMMA-BHC (LINDANE)
0.019U	DELTA-BHC
0.019U	ENDOSULFAN I (ALPHA)
0.028U	DIELDRIN
0.038U	4,4'-DDT (P,P'-DDT)
0.028U	4,4'-DDE (P,P'-DDE)
0.038U	4,4'-DDD (P,P'-DDD)
0.034U	ENDRIN
0.038U	ENDOSULFAN II (BETA)
0.042U	ENDOSULFAN SULFATE
0.18U	CHLORDANE (TECH. MIXTURE) /1
0.40U	PCB-1242 (AROCLOR 1242)
0.45U	PCB-1254 (AROCLOR 1254)
0.40U	PCB-1221 (AROCLOR 1221)

0.40U	PCB-1232 (AROCLOR 1232)
0.40U	PCB-1248 (AROCLOR 1248)
0.45U	PCB-1260 (AROCLOR 1260)
0.40U	PCB-1016 (AROCLOR 1016)
1.6U	TOXAPENE
---	CHLORDENE /2
---	ALPHA-CHLORDENE /2
---	BETA CHLORDENE /2
---	GAMMA-CHLORDENE /2
---	1-HYDROXYCHLORDENE /2
---	GAMMA-CHLORDANE /2
---	TRANS-NONACHLOR /2
---	ALPHA-CHLORDANE /2
---	CIS-NONACHLOR /2
---	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.088U	METHOXCHLOR
0.038U	ENDRIN KETONE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/17/88

PESTICIDES/PCB'S DATA REPORT

\*\*\*  
\*\* PROJECT NO. 88-509 SAMPLE NO. 27912 SAMPLE TYPE: GROUNDWATE PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY \*\*  
\*\* SOURCE: CARRIER AIR CONDITIO CITY: COLLIERVIL ST: TN \*\*  
\*\* STATION ID: CME-E, EAST FIELD EAST WALL COLLECTION START: 07/19/88 1330 STOP: 00/00/00 \*\*  
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UG/L ANALYTICAL RESULTS

0.019U	ALDRIN
0.015U	HEPTACHLOR
0.019U	HEPTACHLOR EPOXIDE
0.015U	ALPHA-BHC
0.028U	BETA-BHC
0.015U	GAMMA-BHC (LINDANE)
0.019U	DELTA-BHC
0.019U	ENDOSULFAN I (ALPHA)
0.028U	DIELDRIN
0.038U	4,4'-DDT (P,P'-DDT)
0.028U	4,4'-DDE (P,P'-DDE)
0.038U	4,4'-DDD (P,P'-DDD)
0.034U	ENDRIN
0.038U	ENDOSULFAN II (BETA)
0.042U	ENDOSULFAN SULFATE
0.18U	CHLORDANE (TECH. MIXTURE) /1
0.40U	PCB-1242 (AROCLOL 1242)
0.45U	PCB-1254 (AROCLOL 1254)
0.40U	PCB-1221 (AROCLOL 1221)

UG/L ANALYTICAL RESULTS

0.40U	PCB-1232 (AROCLOL 1232)
0.40U	PCB-1248 (AROCLOL 1248)
0.45U	PCB-1260 (AROCLOL 1260)
0.40U	PCB-1016 (AROCLOL 1016)
1.6U	TOXAPHENE
---	CHLORDENE /2
---	ALPHA-CHLORDENE /2
---	BETA CHLORDENE /2
---	GAMMA-CHLORDENE /2
---	1-HYDROXYCHLORDENE /2
---	GAMMA-CHLORDANE /2
---	TRANS-NONACHLOR /2
---	ALPHA-CHLORDANE /2
---	CIS-NONACHLOR /2
0.088U	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.038U	METHOXYPHOR
0.038U	ENDRIN KETONE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

--A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/17/88

PESTICIDES/PCB'S DATA REPORT

\*\*\*  
\*\* PROJECT NO. 88-509 SAMPLE NO. 27913 SAMPLE TYPE: GROUNDWATE  
\*\* SOURCE: CARRIER AIR CONDITIONING  
\*\* STATION ID: CME-M EAST FIELD MIDDLE WALL  
\*\*

PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY  
CITY: COLLIERVILLE ST: TN  
COLLECTION START: 07/19/88 1415 STOP: 00/00/00

UG/L ANALYTICAL RESULTS

0.019U	ALDRIN
0.015U	HEPTACHLOR
0.019U	HEPTACHLOR EPOXIDE
0.015U	ALPHA-BHC
0.028U	BETA-BHC
0.015U	GAMMA-BHC (LINDANE)
0.019U	DELTA-BHC
0.019U	ENDOSULFAN I (ALPHA)
0.028U	DIELDRIN
0.038U	4,4'-DDT (P,P'-DDT)
0.028U	4,4'-DDE (P,P'-DDE)
0.038U	4,4'-DDD (P,P'-DDD)
0.034U	ENDRIN
0.038U	ENDOSULFAN II (BETA)
0.042U	ENDOSULFAN SULFATE
0.18U	CHLORDANE (TECH. MIXTURE) /1
0.40U	PCB-1242 (AROCLOR 1242)
0.45U	PCB-1254 (AROCLOR 1254)
0.40U	PCB-1221 (AROCLOR 1221)

UG/L ANALYTICAL RESULTS

0.40U	PCB-1232 (AROCLOR 1232)
0.40U	PCB-1248 (AROCLOR 1248)
0.45U	PCB-1260 (AROCLOR 1260)
0.40U	PCB-1016 (AROCLOR 1016)
1.6U	TOXAPHENE
---	CHLORDENE /2
---	ALPHA-CHLORDENE /2
---	BETA CHLORDENE /2
---	GAMMA-CHLORDENE /2
---	1-HYDROXYCHLORDENE /2
---	GAMMA-CHLORDANE /2
---	TRANS-NONACHLOR /2
---	ALPHA-CHLORDANE /2
---	CIS-NONACHLOR /2
0.088U	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.038U	METHOXUCHLOR
0.038U	ENDRIN KETONE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/17/88

PESTICIDES/PCB'S DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27914 SAMPLE TYPE: GROUNDWATE PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY \*\*\*  
\*\* SOURCE: CARRIER AIR CONDITION CITY: COLLIERVIL ST: TN \*\*\*  
\*\* STATION ID: CME-W, EAST FIELD WEST WALL COLLECTION START: 07/19/88 1510 STOP: 00/00/00 \*\*\*  
\*\*

UG/L ANALYTICAL RESULTS

0.019U	ALDRIN
0.015U	HEPTACHLOR
0.019U	HEPTACHLOR EPOXIDE
0.015U	ALPHA-BHC
0.028U	BETA-BHC
0.015U	GAMMA-BHC (LINDANE)
0.019U	DELTA-BHC
0.019U	ENDOSULFAN I (ALPHA)
0.028U	DIELDRIN
0.038U	4,4'-DDT (P,P'-DDT)
0.028U	4,4'-DDE (P,P'-DDE)
0.038U	4,4'-DDD (P,P'-DDD)
0.034U	ENDRIN
0.038U	ENDOSULFAN II (BETA)
0.042U	ENDOSULFAN SULFATE
0.18U	CHLORDANE (TECH. MIXTURE) /1
0.40U	PCB-1242 (AROCLOR 1242)
0.45U	PCB-1254 (AROCLOR 1254)
0.40U	PCB-1221 (AROCLOR 1221)

0.45U	PCB-1232 (AROCLOR 1232)
0.40U	PCB-1248 (AROCLOR 1248)
0.45U	PCB-1260 (AROCLOR 1260)
0.40U	PCB-1016 (AROCLOR 1016)
1.6U	TOXAPHENNE
---	CHLORDENE /2
---	ALPHA-CHLORDENE /2
---	BETA CHLORDENE /2
---	GAMMA-CHLORDENE /2
---	1-HYDROXYCHLORDENE /2
---	GAMMA-CHLORDANE /2
---	TRANS-NONACHLOR /2
---	ALPHA-CHLORDANE /2
---	CIS-NONACHLOR /2
0.088U	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.038U	METHOXCHLOR
0.038U	ENDRIN KETONE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/17/88

PESTICIDES/PCB'S DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27915 SAMPLE TYPE: GROUNDWATE PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY \*\*  
\*\* SOURCE: CARRIER AIR CONDITIO CITY: COLLIERVIL ST: TN \*\*  
\*\* STATION ID: CME-F, EAST FIELD FINISHED COLLECTION START: 07/19/88 1545 STOP: 00/00/00 \*\*  
\*\*

UG/L ANALYTICAL RESULTS

0.019U	ALDRIN
0.015U	HEPTACHLOR
0.019U	HEPTACHLOR EPOXIDE
0.015U	ALPHA-BHC
0.028U	BETA-BHC
0.015U	GAMMA-BHC (LINDANE)
0.019U	DELTA-BHC
0.019U	ENDOSULFAN I (ALPHA)
0.028U	DIELDRIN
0.038U	4,4'-DDT (P,P'-DDT)
0.028U	4,4'-DDE (P,P'-DDE)
0.038U	4,4'-DDD (P,P'-DDD)
0.034U	ENDRIN
0.038U	ENDOSULFAN II (BETA)
0.042U	ENDOSULFAN SULFATE
0.18U	CHLORDANE (TECH. MIXTURE) /1
0.40U	PCB-1242 (AROCLOR 1242)
0.45U	PCB-1254 (AROCLOR 1254)
0.40U	PCB-1221 (AROCLOR 1221)

UG/L ANALYTICAL RESULTS

0.40U	PCB-1232 (AROCLOR 1232)
0.40U	PCB-1248 (AROCLOR 1248)
0.45U	PCB-1260 (AROCLOR 1260)
0.40U	PCB-1016 (AROCLOR 1016)
1.6U	TOXAPHEN
---	CHLORDENE /2
---	ALPHA-CHLORDENE /2
---	BETA-CHLORDENE /2
---	GAMMA-CHLORDENE /2
---	1-HYDROXYCHLORDENE /2
---	GAMMA-CHLORDANE /2
---	TRANS-NONACHLOR /2
---	ALPHA-CHLORDANE /2
---	CIS-NONACHLOR /2
---	OXYCHLORDANE (OCTACHLOREPOXIDE) /2
0.088U	METHOXCHLOR
0.038U	ENDRIN KETONE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
 \*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
 \*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT. C-CONFIRMED BY GC/MS  
 1. WHEN NO VALUE IS REPORTED, SEE CHLORDANE CONSTITUENTS. 2. CONSTITUENTS OR METABOLITES OF TECHNICAL CHLORDANE.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/04/88

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27907 SAMPLE TYPE: GROUNDWATER PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY \*\*  
\*\* SOURCE: CARRIER AIR CONDITIO CITY: COLLIERVILLE ST: TN \*\*  
\*\* STATION ID: CMW-E WEST FIELD, EAST WALL COLLECTION START: 07/19/88 0900 STOP: 00/00/00 \*\*  
\*\*

UG/L ANALYTICAL RESULTS

5.0U	CHLOROMETHANE
5.0U	VINYL CHLORIDE
5.0U	BROMOMETHANE
5.0U	CHLOROETHANE
5.0U	TRICHLOROFLUOROMETHANE
5.0U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
50U	ACETONE
50U	CARBON DISULFIDE
5.0U	METHYLENE CHLORIDE
5.0U	TRANS-1,2-DICHLOROETHENE
5.0U	1,1-DICHLOROETHANE
50U	VINYL ACETATE
5.0U	CIS-1,2-DICHLOROETHENE
5.0U	2,2-DICHLOROPROPANE
50U	METHYL ETHYL KETONE
5.0U	BROMOCHLOROMETHANE
5.0U	CHLOROFORM
5.0U	1,1,1-TRICHLOROETHANE
5.0U	1,1-DICHLOROPROPENE
5.0U	CARBON TETRACHLORIDE
5.0U	1,2-DICHLOROETHANE
5.0U	BENZENE
4.9J	TRICHLOROETHENE(TRICHLOROETHYLENE)
5.0U	1,2-DICHLOROPROPANE
5.0U	DIBROMOMETHANE
5.0U	BROMODICHLOROMETHANE

UG/L ANALYTICAL RESULTS

5.0U	CIS-1,3-DICHLOROPROPENE
50U	METHYL ISOBUTYL KETONE
5.0U	TOLUENE
5.0U	TRANS-1,3-DICHLOROPROPENE
5.0U	1,1,2-TRICHLOROETHANE
5.0U	TETRACHLOROETHENE(TETRACHLOROETHYLENE)
5.0U	1,3-DICHLOROPROPANE
50U	MÉTHYL BUTYL KETONE
5.0U	DIBROMOCHLOROMETHANE
5.0U	CHLOROBENZENE
10U	1,1,1,2-TETRACHLOROETHANE
5.0U	ÉTHYL BENZENE
5.0U	(M- AND/OR P-)XYLENE
5.0U	O-XYLENE
10U	STYRENE
5.0U	BROMOFORM
10U	BROMOBENZENE
5.0U	1,1,2,2-TETRACHLOROETHANE
10U	1,2,3-TRICHLOROPROPANE
10U	O-CHLOROTOLUENE
10U	P-CHLOROTOLUENE
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	1,2-DICHLOROBENZENE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/04/88

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27909 SAMPLE TYPE: GROUNDWATE PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY \*\*\*  
\*\* SOURCE: CARRIER AIR CONDITIO CITY: COLLIERVILLE ST: TN \*\*  
\*\* STATION ID: CMW-W, WEST FIELD WEST WALL COLLECTION START: 07/19/88 1020 STOP: 00/00/00 \*\*  
\*\*

UG/L ANALYTICAL RESULTS

5.0U CHLOROMETHANE  
5.0U VINYL CHLORIDE  
5.0U BROMOMETHANE  
5.0U CHLOROETHANE  
5.0U TRICHLOROFLUOROMETHANE  
5.0U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)  
5.0U ACETONE  
5.0U CARBON DISULFIDE  
5.0U METHYLENE CHLORIDE  
5.0U TRANS-1,2-DICHLOROETHENE  
5.0U 1,1-DICHLOROETHANE  
5.0U VINYL ACETATE  
5.0U CIS-1,2-DICHLOROETHENE  
5.0U 2,2-DICHLOROPROPANE  
5.0U METHYL ETHYL KETONE  
5.0U BROMOCHLOROMETHANE  
5.0U CHLOROFORM  
5.0U 1,1,1-TRICHLOROETHANE  
5.0U 1,1-DICHLOROPROPENE  
5.0U CARBON TETRACHLORIDE  
5.0U 1,2-DICHLOROETHANE  
5.0U BENZENE  
8.8 TRICHLOROETHENE(TRICHLOROETHYLENE)  
5.0U 1,2-DICHLOROPROPANE  
5.0U DIBROMOMETHANE  
5.0U BROMODICHLOROMETHANE

UG/L ANALYTICAL RESULTS

5.0U CIS-1,3-DICHLOROPROPENE  
5.0U METHYL ISOBUTYL KETONE  
5.0U TOLUENE  
5.0U TRANS-1,3-DICHLOROPROPENE  
5.0U 1,1,2-TRICHLOROETHANE  
5.0U TETRACHLOROETHENE(TETRACHLOROETHYLENE)  
5.0U 1,3-DICHLOROPROPANE  
5.0U MÉTHYL BUTYL KETONE  
5.0U DIBROMOCHLOROMETHANE  
5.0U CHLOROBENZENE  
1.0U 1,1,1,2-TETRACHLOROETHANE  
5.0U ETHYL BENZENE  
5.0U (M- AND/OR P-)XYLENE  
5.0U O-XYLENE  
1.0U STYRENE  
5.0U BROMOFORM  
1.0U BROMOBENZENE  
5.0U 1,1,2,2-TETRACHLOROETHANE  
1.0U 1,2,3-TRICHLOROPROPANE  
1.0U O-CHLOROTOLUENE  
1.0U P-CHLOROTOLUENE  
1.0U 1,3-DICHLOROBENZENE  
1.0U 1,4-DICHLOROBENZENE  
1.0U 1,2-DICHLOROBENZENE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/04/88

## PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27910 SAMPLE TYPE: GROUNDWATER PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY  
\*\* SOURCE: CARRIER AIR CONDITIONER CITY: COLLIERVILLE ST: TN  
\*\* STATION ID: CMW-A, WEST FIELD AERATOR COLLECTION START: 07/19/88 1110 STOP: 00/00

## UG/L ANALYTICAL RESULTS

5.OU CHLOROMETHANE  
5.OU VINYL CHLORIDE  
5.OU BROMOMETHANE  
5.OU CHLOROETHANE  
5.OU TRICHLOROFLUOROMETHANE  
5.OU 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)  
5.OU ACETONE  
5.OU CARBON DISULFIDE  
5.OU METHYLENE CHLORIDE  
5.OU TRANS-1,2-DICHLOROETHENE  
5.OU 1,1-DICHLOROETHANE  
5.OU VINYL ACETATE  
5.OU CIS-1,2-DICHLOROETHENE  
5.OU 2,2-DICHLOROPROPANE  
5.OU METHYL ETHYL KETONE  
5.OU BROMOCHLOROMETHANE  
5.OU CHLOROFORM  
5.OU 1,1,1-TRICHLOROETHANE  
5.OU 1,1-DICHLOROPROPENE  
5.OU CARBON TETRACHLORIDE  
5.OU 1,2-DICHLOROETHANE  
5.OU BENZENE  
2.9J TRICHLOROETHENE( TRICHLOROETHYLENE )  
5.OU 1,2-DICHLOROPROPANE  
5.OU DIBROMOMETHANE  
5.OU BROMODICHLOROMETHANE

UG/I ANALYTICAL BEHAVIOR

5.OU CIS-1,3-DICHLOROPROPENE  
 5.OU METHYL ISOBUTYL KETONE  
 5.OU TOLUENE  
 5.OU TRANS-1,3-DICHLOROPROPENE  
 5.OU 1,1,2-TRICHLOROETHANE  
 5.OU TETRACHLOROETHENE (TETRACHLOROETHYLENE)  
 5.OU 1,3-DICHLOROPROPANE  
 5.OU METHYL BUTYL KETONE  
 5.OU DIBROMOCHLOROMETHANE  
 5.OU CHLOROBENZENE  
 1OU 1,1,1,2-TETRACHLOROETHANE  
 5.OU ETHYL BENZENE  
 5.OU (M- AND/OR P-)XYLENE  
 5.OU O-XYLENE  
 1OU STYRENE  
 5.OU BROMOFORM  
 1OU BROMOBENZENE  
 5.OU 1,1,2,2-TETRACHLOROETHANE  
 1OU 1,2,3-TRICHLOROPROPANE  
 1OU O-CHLOROTOLUENE  
 1OU P-CHLOROTOLUENE  
 1OU 1,3-DICHLOROBENZENE  
 1OU 1,4-DICHLOROBENZENE  
 1OU 1,2-DICHLOROBENZENE

**\*\*\*REMARKS\*\*\***

**\*\*\*REMARKS\*\*\***

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/04/88

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27911 SAMPLE TYPE: GROUNDWATER PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY \*\*\*  
\*\* SOURCE: CARRIER AIR CONDITIO CITY: COLLIERVIL ST: TN \*\*  
\*\* STATION ID: CMW-F, WEST FIELD FINISHED COLLECTION START: 07/19/88 1145 STOP: 00/00/00 \*\*  
\*\*

UG/L ANALYTICAL RESULTS

5.0U CHLOROMETHANE  
5.0U VINYL CHLORIDE  
5.0U BROMOMETHANE  
5.0U CHLOROETHANE  
5.0U TRICHLOROFLUOROMETHANE  
5.0U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)  
5.0U ACETONE  
5.0U CARBON DISULFIDE  
5.0U METHYLENE CHLORIDE  
5.0U TRANS-1,2-DICHLOROETHENE  
5.0U 1,1-DICHLOROETHANE  
5.0U VINYL ACETATE  
5.0U CIS-1,2-DICHLOROETHENE  
5.0U 2,2-DICHLOROPROPANE  
5.0U METHYL ETHYL KETONE  
5.0U BROMOCHLOROMETHANE  
5.0U CHLOROFORM  
5.0U 1,1,1-TRICHLOROETHANE  
5.0U 1,1-DICHLOROPROPENE  
5.0U CARBON TETRACHLORIDE  
5.0U 1,2-DICHLOROETHANE  
5.0U BENZENE  
2.5J TRICHLOROETHENE(TRICHLOROETHYLENE)  
5.0U 1,2-DICHLOROPROPANE  
5.0U DIBROMOMETHANE  
5.0U BROMODICHLOROMETHANE

UG/L ANALYTICAL RESULTS

5.0U CIS-1,3-DICHLOROPROPENE  
5.0U METHYL ISOBUTYL KETONE  
5.0U TOLUENE  
5.0U TRANS-1,3-DICHLOROPROPENE  
5.0U 1,1,2-TRICHLOROETHANE  
5.0U TETRACHLOROETHENE(TETRACHLOROETHYLENE)  
5.0U 1,3-DICHLOROPROPANE  
5.0U MÉTHYL BUTYL KETONE  
5.0U DIBROMOCHLOROMETHANE  
5.0U CHLOROBENZENE  
1.0U 1,1,1,2-TETRACHLOROETHANE  
5.0U ETHYL BENZENE  
5.0U (M- AND/OR P-)XYLENE  
5.0U O-XYLENE  
1.0U STYRENE  
5.0U BROMOFORM  
1.0U BROMOBENZENE  
5.0U 1,1,2,2-TETRACHLOROETHANE  
1.0U 1,2,3-TRICHLOROPROPANE  
1.0U O-CHLOROTOLUENE  
1.0U P-CHLOROTOLUENE  
1.0U 1,3-DICHLOROBENZENE  
1.0U 1,4-DICHLOROBENZENE  
1.0U 1,2-DICHLOROBENZENE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/04/88

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27912 SAMPLE TYPE: GROUNDWATE PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY  
\*\* SOURCE: CARRIER AIR CONDITIO CITY: COLLIERVILLE ST: TN  
\*\* STATION ID: CME-E, EAST FIELD EAST WALL COLLECTION START: 07/19/88 1330 STOP: 00/00/00  
\*\*  
\*\*\*

UG/L ANALYTICAL RESULTS

5.0U CHLOROMETHANE  
5.0U VINYL CHLORIDE  
5.0U BROMOMETHANE  
5.0U CHLOROETHANE  
5.0U TRICHLOROFLUOROMETHANE  
5.0U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)  
5.0U ACETONE  
5.0U CARBON DISULFIDE  
5.0U METHYLENE CHLORIDE  
5.0U TRANS-1,2-DICHLOROETHENE  
5.0U 1,1-DICHLOROETHANE  
5.0U VINYL ACETATE  
5.0U CIS-1,2-DICHLOROETHENE  
5.0U 2,2-DICHLOROPROPANE  
5.0U MÉTHYL ETHYL KETONE  
5.0U BROMOCHLOROMETHANE  
5.0U CHLOROFORM  
5.0U 1,1,1-TRICHLOROETHANE  
5.0U 1,1-DICHLOROPROPENE  
5.0U CARBON TETRACHLORIDE  
5.0U 1,2-DICHLOROETHANE  
5.0U BENZENE  
5.0U TRICHLOROETHENE(TRICHLOROETHYLENE)  
5.0U 1,2-DICHLOROPROPANE  
5.0U DIBROMOMETHANE  
5.0U BROMODICHLOROMETHANE

UG/L ANALYTICAL RESULTS

5.0U CIS-1,3-DICHLOROPROPENE  
5.0U METHYL ISOBUTYL KETONE  
5.0U TOLUENE  
5.0U TRANS-1,3-DICHLOROPROPENE  
5.0U 1,1,2-TRICHLOROETHANE  
5.0U TÉTRACHLOROETHENE(TETRACHLOROETHYLENE)  
5.0U 1,3-DICHLOROPROPANE  
5.0U MÉTHYL BUTYL KETONE  
5.0U DIBROMOCHLOROMETHANE  
5.0U CHLOROBENZENE  
10U 1,1,1,2-TETRACHLOROETHANE  
5.0U ÉTHYL BENZENE  
5.0U (M- AND/OR P-)XYLENE  
5.0U O-XYLENE  
10U STYRENE  
5.0U BROMOFORM  
10U BROMOBENZENE  
5.0U 1,1,2,2-TETRACHLOROETHANE  
10U 1,2,3-TRICHLOROPROPANE  
10U O-CHLOROTOLUENE  
10U P-CHLOROTOLUENE  
10U 1,3-DICHLOROBENZENE  
10U 1,4-DICHLOROBENZENE  
10U 1,2-DICHLOROBENZENE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/04/88

PURGEABLE ORGANICS DATA REPORT

\*\*\*  
\*\* PROJECT NO. 88-509 SAMPLE NO. 27913 SAMPLE TYPE: GROUNDWATER PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY \*\*  
\*\* SOURCE: CARRIER AIR CONDITIONING STATION ID: CME-M EAST FIELD MIDDLE WALL CITY: COLLIERVILLE ST: TN \*\*  
\*\* COLLECTION START: 07/19/88 1415 STOP: 00/00/00 \*\*  
\*\*

UG/L

ANALYTICAL RESULTS

5.0U CHLOROMETHANE  
5.0U VINYL CHLORIDE  
5.0U BROMOMETHANE  
5.0U CHLOROETHANE  
5.0U TRICHLOROFLUOROMETHANE  
5.0U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)  
50U ACETONE  
50U CARBON DISULFIDE  
5.0U METHYLENE CHLORIDE  
5.0U TRANS-1,2-DICHLOROETHENE  
5.0U 1,1-DICHLOROETHANE  
50U VINYL ACETATE  
5.0U CIS-1,2-DICHLOROETHENE  
5.0U 2,2-DICHLOROPROPANE  
50U METHYL ETHYL KETONE  
5.0U BROMOCHLOROMETHANE  
5.0U CHLOROFORM  
5.0U 1,1,1-TRICHLOROETHANE  
5.0U 1,1-DICHLOROPROPENE  
5.0U CARBON TETRACHLORIDE  
5.0U 1,2-DICHLOROETHANE  
5.0U BENZENE  
5.0U TRICHLOROETHENE(TRICHLOROETHYLENE)  
5.0U 1,2-DICHLOROPROPANE  
5.0U DIBROMOMETHANE  
5.0U BROMODICHLOROMETHANE

UG/L

ANALYTICAL RESULTS

5.0U CIS-1,3-DICHLOROPROPENE  
50U METHYL ISOBUTYL KETONE  
5.0U TOLUENE  
5.0U TRANS-1,3-DICHLOROPROPENE  
5.0U 1,1,2-TRICHLOROETHANE  
5.0U TETRACHLOROETHENE(TETRACHLOROETHYLENE)  
5.0U 1,3-DICHLOROPROPANE  
50U METHYL BUTYL KETONE  
5.0U DIBROMOCHLOROMETHANE  
5.0U CHLOROBENZENE  
10U 1,1,1,2-TETRACHLOROETHANE  
5.0U ETHYL BENZENE  
5.0U (M- AND/OR P-)XYLENE  
5.0U O-XYLENE  
10U STYRENE  
5.0U BROMOFORM  
10U BROMOBENZENE  
5.0U 1,1,2,2-TETRACHLOROETHANE  
10U 1,2,3-TRICHLOROPROPANE  
10U O-CHLOROTOLUENE  
10U P-CHLOROTOLUENE  
10U 1,3-DICHLOROBENZENE  
10U 1,4-DICHLOROBENZENE  
10U 1,2-DICHLOROBENZENE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/04/88

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27914 SAMPLE TYPE: GROUNDWATE PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY  
\*\* SOURCE: CARRIER AIR CONDITIO CITY: COLLIERVIL ST: TN  
\*\* STATION ID: CME-W, EAST FIELD WEST WALL COLLECTION START: 07/19/88 1510 STOP: 00/00/00  
\*\*  
\*\*\*

UG/L ANALYTICAL RESULTS

5.0U CHLOROMETHANE  
5.0U VINYL CHLORIDE  
5.0U BROMOMETHANE  
5.0U CHLOROETHANE  
5.0U TRICHLOROFLUOROMETHANE  
5.0U 1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)  
50U ACETONE  
50U CARBON DISULFIDE  
5.0U METHYLENE CHLORIDE  
5.0U TRANS-1,2-DICHLOROETHENE  
5.0U 1,1-DICHLOROETHANE  
50U VINYL ACETATE  
5.0U CIS-1,2-DICHLOROETHENE  
5.0U 2,2-DICHLOROPROPANE  
50U METHYL ETHYL KETONE  
5.0U BROMOCHLOROMETHANE  
5.0U CHLOROFORM  
5.0U 1,1,1-TRICHLOROETHANE  
5.0U 1,1-DICHLOROPROPENE  
5.0U CARBON TETRACHLORIDE  
5.0U 1,2-DICHLOROETHANE  
5.0U BENZENE  
5.0U TRICHLOROETHENE (TRICHLOROETHYLENE)  
5.0U 1,2-DICHLOROPROPANE  
5.0U DIBROMOMETHANE  
5.0U BROMODICHLOROMETHANE

UG/L ANALYTICAL RESULTS

5.0U CIS-1,3-DICHLOROPROPENE  
50U METHYL ISOBUTYL KETONE  
5.0U TOLUENE  
5.0U TRANS-1,3-DICHLOROPROPENE  
5.0U 1,1,2-TRICHLOROETHANE  
5.0U TETRACHLOROETHENE(TETRACHLOROETHYLENE)  
5.0U 1,3-DICHLOROPROPANE  
50U MÉTHYL BUTYL KETONE  
5.0U DIBROMOCHLOROMETHANE  
5.0U CHLOROBENZENE  
10U 1,1,1,2-TETRACHLOROETHANE  
5.0U ETHYL BENZENE  
5.0U (M- AND/OR P-)XYLENE  
5.0U O-XYLENE  
10U STYRENE  
5.0U BROMOFORM  
10U BROMOBENZENE  
5.0U 1,1,2,2-TETRACHLOROETHANE  
10U 1,2,3-TRICHLOROPROPANE  
10U O-CHLOROTOLUENE  
10U P-CHLOROTOLUENE  
10U 1,3-DICHLOROBENZENE  
10U 1,4-DICHLOROBENZENE  
10U 1,2-DICHLOROBENZENE

\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/04/88

PURGEABLE ORGANICS DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27915 SAMPLE TYPE: GROUNDWATE PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY  
\*\* SOURCE: CARRIER AIR CONDITION CITY: COLLIERVILLE ST: TN  
\*\* STATION ID: CME-F, EAST FIELD FINISHED COLLECTION START: 07/19/88 1545 STOP: 00/00/00  
\*\*  
\*\*\*

UG/L	ANALYTICAL RESULTS
5.0U	CHLOROMETHANE
5.0U	VINYL CHLORIDE
5.0U	BROMOMETHANE
5.0U	CHLOROETHANE
5.0U	TRICHLOROFLUOROMETHANE
5.0U	1,1-DICHLOROETHENE(1,1-DICHLOROETHYLENE)
50U	ACETONE
50U	CARBON DISULFIDE
5.0U	METHYLENE CHLORIDE
5.0U	TRANS-1,2-DICHLOROETHENE
5.0U	1,1-DICHLOROETHANE
50U	VINYL ACETATE
5.0U	CIS-1,2-DICHLOROETHENE
5.0U	2,2-DICHLOROPROPANE
50U	MÉTHYL ETHYL KETONE
5.0U	BROMOCHLOROMETHANE
5.0U	CHLOROFORM
5.0U	1,1,1-TRICHLOROETHANE
5.0U	1,1-DICHLOROPROPENE
5.0U	CARBON TETRACHLORIDE
5.0U	1,2-DICHLOROETHANE
5.0U	BÉNZENE
5.0U	TRICHLOROETHENE(TRICHLOROETHYLENE)
5.0U	1,2-DICHLOROPROPANE
5.0U	DIBROMOMETHANE
5.0U	BROMODICHLOROMETHANE

UG/L	ANALYTICAL RESULTS
5.0U	CIS-1,3-DICHLOROPROPENE
50U	METHYL ISOBUTYL KETONE
5.0U	TOLUENE
5.0U	TRANS-1,3-DICHLOROPROPENE
5.0U	1,1,2-TRICHLOROETHANE
5.0U	TÉTРАCHLOROETHENE(TETRAХLOROETHYLENE)
5.0U	1,3-DICHLOROPROPANE
50U	MÉTHYL BUTYL KETONE
5.0U	DIBROMOCHLOROMETHANE
5.0U	CHLOROBENZENE
10U	1,1,1,2-TETRAХLOROETHANE
5.0U	ETHYL BENZENE
5.0U	(M- AND/OR P-)XYLENE
5.0U	O-XYLENE
10U	STYRENE
5.0U	BROMOFORM
10U	BROMOBENZENE
5.0U	1,1,2,2-TETRAХLOROETHANE
10U	1,2,3-TRICHLOROPROPANE
10U	O-CHLOROTOLUENE
10U	P-CHLOROTOLUENE
10U	1,3-DICHLOROBENZENE
10U	1,4-DICHLOROBENZENE
10U	1,2-DICHLOROBENZENE

\*\*\*REMARKS\*\*\*

\*\*\*REMARKS\*\*\*

\*\*FOOTNOTES\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/01/88

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27907 SAMPLE TYPE: GROUNDWATER PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY \*\*\*  
\*\* SOURCE: CARRIER AIR CONDITIONER CITY: COLLIERVILLE ST: TN \*\*\*  
\*\* STATION ID: CMW-E WEST FIELD, EAST WALL COLLECTION START: 07/19/88 0000 STOP: 00/00/00 \*\*\*  
\*\*  
\*\*\*

RESULTS UNITS PARAMETER  
.004U MG/L CYANIDE

\*\*\*REMARKS\*\*\*  
ALL DATA SUSPECT SPIKE NOT RECOVERED

\*\*\*REMARKS\*\*\*

\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*N/A-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/01/88

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27909 SAMPLE TYPE: GROUNDWATE PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY \*\*\*  
\*\* SOURCE: CARRIER AIR CONDITIO CITY: COLLIERVIL ST: TN \*\*\*  
\*\* STATION ID: CMW-W, WEST FIELD WEST WALL COLLECTION START: 07/19/88 1020 STOP: 00/00/00 \*\*\*  
\*\*  
\*\*\*

RESULTS UNITS PARAMETER  
0.004U MG/I CYANIDE

\*\*\*REMARKS\*\*\*  
ALL DATA SUSPECT SPIKE NOT RECOVERED

\*\*\*REMARKS\*\*\*

FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/01/88

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27910 SAMPLE TYPE: GROUNDWATER PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY \*\*\*  
\*\* SOURCE: CARRIER AIR CONDITIONER CITY: COLLIERVIL ST: TN \*\*\*  
\*\* STATION ID: CMW-A, WEST FIELD AERATOR COLLECTION START: 07/19/88 1110 STOP: 00/00/00 \*\*\*  
\*\*  
\*\*\*

RESULTS UNITS PARAMETER  
0.004U MG/L CYANIDE

REMARKS\*\*\*  
ALL DATA SUSPECT SPIKE NOT RECOVERED

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/01/88

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27911 SAMPLE TYPE: GROUNDWATER PROG FLEM: SSF COLLECTED BY: JAMES C. GRAY  
\*\* SOURCE: CARRIER AIR CONDITIONER CITY: COLLIERVILLE ST: TN  
\*\* STATION ID: CMW-F, WEST FIELD FINISHED COLLECTION START: 07/19/88 1145 STOP: 00/00/00  
\*\*  
\*\*\*

RESULTS UNITS PARAMETER  
.008U MG/L CYANIDE

\*\*\*REMARKS\*\*\*  
ALL DATA SUSPECT SPIKE NOT RECOVERED

\*\*\*REMARKS\*\*\*

FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/01/88

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27912 SAMPLE TYPE: GROUNDWATE PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY  
\*\* SOURCE: CARRIER AIR CONDITIO CITY: COLLIERVIL ST: TN  
\*\* STATION ID: CME-E, EAST FIELD EAST WALL COLLECTION START: 07/19/88 1330 STOP: 00/00/00  
\*\*  
\*\*

RESULTS UNITS PARAMETER  
.0040 MG/L CYANIDE

\*\*\*REMARKS\*\*\*  
ALL DATA SUSPECT SPIKE NOT RECOVERED

\*\*\*REMARKS\*\*\*

FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/01/88

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27913 SAMPLE TYPE: GROUNDWATER PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY  
\*\* SOURCE: CARRIER AIR CONDITIONER CITY: COLLIERVILLE ST: TN  
\*\* STATION ID: CME-M EAST FIELD MIDDLE WALL COLLECTION START: 07/19/88 1415 STOP: 00/00/00  
\*\*  
\*\*\*

RESULTS UNITS PARAMETER  
.004U MG/L CYANIDE

\*\*\*REMARKS\*\*\*  
ALL DATA SUSPECT SPIKE NOT RECOVERED

\*\*\*REMARKS\*\*\*

\*\*FOOTNOTES\*\*  
\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*N/A-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/01/88

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27914 SAMPLE TYPE: GROUNDWATE PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY \*\*  
\*\* SOURCE: CARRIER AIR CONDITIONER CITY: COLLIERVILLE ST: TN \*\*  
\*\* STATION ID: CME-W, EAST FIELD WEST WALL COLLECTION START: 07/19/88 1510 STOP: 00/00/00 \*\*  
\*\*

RESULTS UNITS PARAMETER  
.0040 MG/L CYANIDE

\*\*\*REMARKS\*\*\*

L DATA SUSPECT SPIKE NOT RECOVERED

\*\*\*REMARKS\*\*\*

\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*NAI-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.

SAMPLE AND ANALYSIS MANAGEMENT SYSTEM  
EPA-REGION IV ESD, ATHENS, GA.

08/01/88

SPECIFIED ANALYSIS DATA REPORT

\*\*\* PROJECT NO. 88-509 SAMPLE NO. 27915 SAMPLE TYPE: GROUNDWATER PROG ELEM: SSF COLLECTED BY: JAMES C. GRAY  
\*\* SOURCE: CARRIER AIR CONDITIONER CITY: COLLIERVILLE ST: TN  
\*\* STATION ID: CME-F, EAST FIELD FINISHED COLLECTION START: 07/19/88 1545 STOP: 00/00/00  
\*\*  
\*\*

RESULTS UNITS PARAMETER  
.004U MG/L CYANIDE

\*\*\*REMARKS\*\*\*  
ALL DATA SUSPECT SPIKE NOT RECOVERED

\*\*\*REMARKS\*\*\*

\*\*\*FOOTNOTES\*\*\*

\*A-AVERAGE VALUE \*NA-NOT ANALYZED \*N/A-INTERFERENCES \*J-ESTIMATED VALUE \*N-PRESUMPTIVE EVIDENCE OF PRESENCE OF MATERIAL  
\*K-ACTUAL VALUE IS KNOWN TO BE LESS THAN VALUE GIVEN \*L-ACTUAL VALUE IS KNOWN TO BE GREATER THAN VALUE GIVEN  
\*U-MATERIAL WAS ANALYZED FOR BUT NOT DETECTED. THE NUMBER IS THE MINIMUM QUANTITATION LIMIT.